

Curriculum Plan		Subject	SWO Geography: Glaciation		Year	12
Spring 1		W/C 6 th January	W/C 11 th January		W/C 18 th January	
How you will access home learning		The PowerPoint and lesson materials will be available in our Y12 group on Microsoft Teams. You will need access to your Geography AS textbook via Kerboodle.				
How you be able to interact with your teacher and gain feedback on your work		You will be able to join each lesson via Microsoft Teams. This will enable you to listen to teacher delivery, to ask questions, and to complete the same tasks live, as those who are working in the lesson. You can join in with questioning in the lesson using the chat function to check your understanding. Work will be submitted via the online submission function on SHMW or by e-mail. You will receive feedback on any 12-mark exam questions completed, through the teacher comment box on SHMW.				
Retrieval How we will help you to recall previously learnt knowledge		Quiz on the causes of long term climate change to recall knowledge from GCSE	Quick knowledge check; 10 questions included in the PowerPoint content, together with mix and match vocabulary activity for long term climate change.		Quick vocabulary test on ice masses	
New Learning	What you will be learning about this week	An introduction to glaciation and the bigger picture; the Pleistocene and long-term climate change.	Present and past Pleistocene distribution of ice cover; the role of the cryosphere and classification of ice masses. Warm-based and cold-based glaciers		Periglacial landscapes and permafrost; processes and landforms	
	How we will teach you the new knowledge or ideas	PowerPoint content, teacher led explanations to talk through analysis of maps to explain the distribution of ice coverage during the last glacial maximum, as well as images that show evidence of glaciation	PowerPoint content and teacher led explanations and scaffolded activities. Using images to explain the classification of different ice masses.		PowerPoint content, teacher led explanations and scaffolded activities. Images of peri-glacial landforms and animated diagrams will be used to explain processes.	
	Activities that will help you learn and practice what you've been taught	Read page 50-51 of the AS textbook and explain the characteristics of the Pleistocene. Use p.51-53 to explain the causes of long term climate change and describe the Little Ice Age	Use p.55 to explain the distribution of cold environments. Read p.54 and define the term 'cryosphere' and describe the different types of ice masses. Use this link to help you to explain the difference between warm based and cold based glaciers; Glacial Systems - Characteristics and Formation... Geography tutor2u		Use p.56-61 to help you to produce an overview of periglacial processes and landscapes. Explain what permafrost is and what periglacial landscapes are like. Use the images on the PowerPoint to support your notes. Key processes to explain are frost shattering/freeze-thaw weathering, nivation, frost heave and solifluction. Key landforms are block fields, patterned ground, stone polygons and pingos.	

				Exam Questions: Explain the importance of freeze-thaw weathering in the formation of periglacial landforms. (6 marks)
	What you can do if you are stuck	You can ask any questions during the live lesson through using the chat function on Microsoft Teams. The Teams lessons will be recorded so you can refer to teacher explanations and listen to them again. Use your online Kerboodle textbook to refer to any previous content. If you have questions in relation to any of the 12-mark exam questions, you can use the frameworks provided, and modelled explanations, to help you answer the questions. If you need to e-mail me to ask a question, then please attach a copy of the work that you have completed so far, so I can be specific in giving you feedback and help.		

		W/C 25 th January	W/C 1 st February	W/C 8 th February
How you will access home learning		The PowerPoint and lesson materials will be available in our Y12 group on Microsoft Teams. You will need access to your Geography AS textbook via Kerboodle.		
How you be able to interact with your teacher and gain feedback on your work		You will be able to join each lesson via Microsoft Teams. This will enable you to listen to teacher delivery, to ask questions, and to complete the same tasks live, as those who are working in the lesson. You can join in with questioning in the lesson using the chat function to check your understanding. Work will be submitted via the online submission function on SHMW or by e-mail. You will receive feedback on any 12-mark exam questions completed, through the teacher comment box on SHMW.		
Retrieval How we will help you to recall previously learnt knowledge		Multiple choice knowledge questions on key question one of the specification; How has climate change influenced the formation of glaciated landscapes over time?	Image identification task; identify four periglacial landforms and explain how they form.	Quick knowledge check: 8 questions in the PowerPoint content on ice movement. Vocabulary check; mix and match activity on definitions.
New Learning	What you will be learning about this week	What processes operate within glacier systems? Glacial mass balance, accumulation, ablation and equilibrium	How do glaciers move, and what factors affect the rate of movement?	An introduction to the glacier landform system; what is a glacially eroded landscape and what are the processes of glacial erosion that shape it?
	How we will teach you the new knowledge or ideas	PowerPoint content and teacher led explanations and scaffolded activities on the inputs, outputs and stores of the glacial system. Explanations will be around the interpretation of glacial mass balance diagrams. The 8 mark exam question will be modelled and scaffolded in the lesson activities.	PowerPoint content and teacher led explanations and scaffolded activities. Use of diagrams and animations to demonstrate processes such as internal deformation and basal slip. Independent research on the rate of ice movement in glaciers from different locations.	PowerPoint content and teacher led explanations and scaffolded activities. Use of images to visualise landforms of glacial erosion and make links to the processes that form them. Researching examples of relict glaciated landscapes such as the Lake District. Modelled answer for the 6 mark questions to show WAGOLL.
	Activities that will help you learn and practice what you've been taught	Use p.62-63 of the textbook to complete your A3 diagram on mass balance. Practise activities to calculate the mass balance of specific glaciers, including the Gulkana glacier, shown in the table in Figure 8 on p.65. Exam Practice: Explain how the glacial mass balance concept contributes to an understanding of glacial systems (8)	Read p.66-67 of your textbook and explain the processes of ice movement including internal deformation and basal slip. Explain the factors that affect the rate of movement and use this website to research the rate of ice movement in Greenland's Jakobshavn glacier; Greenland's Fastest-Flowing Glacier Speeds Up Climate Central	Use page 68 to define processes such as glacial erosion, entrainment, transportation and deposition. Read p.70 - 72 and explain a range of glacial landforms and how they form (include detail on processes of erosion such as abrasion and plucking.) Watching the video clips at this website are a good starting

				point to understand the processes; Coolgeography - GCSE - Physical landscapes in the UK . Use the powerpoint content to include images of the landforms. Exam Practice; What erosional features can be seen in the image? (6 marks)
	What you can do if you are stuck	You can ask any questions during the live lesson through using the chat function on Microsoft Teams. The Teams lessons will be recorded so you can refer to teacher explanations and listen to them again. Use your online Kerboodle textbook to refer to any previous content. If you have questions in relation to any of the 12-mark exam questions, you can use the frameworks provided, and modelled explanations, to help you answer the questions. If you need to e-mail me to ask a question, then please attach a copy of the work that you have completed so far, so I can be specific in giving you feedback and help.		